

## SPHERO™ Coated Ferromagnetic Particles

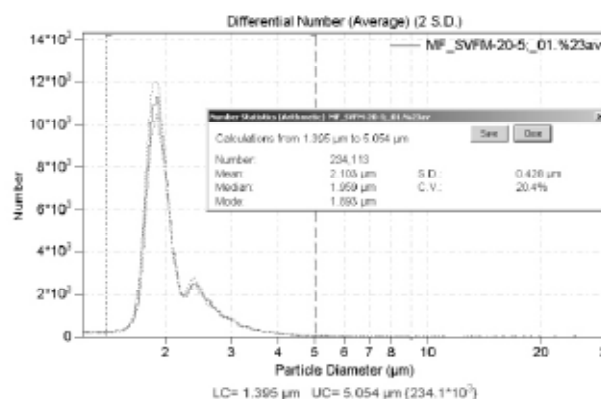
### SPHERO™ Streptavidin Coated Ferromagnetic Particles

- See Page 70 for uses, benefits, and the mechanism of streptavidin coated particles
- Used for their ability to be easily manipulated in a magnetic field\*.

\*Anker, J.N., C.J. Behrend, et al. (2005). "Magnetically-modulated optical nanoprobe (MagMOONS) and systems." Journal of Magnetism and Magnetic Materials 293(1): 655-662

Particle Type and Surface	Size, $\mu\text{m}$	% w/v	Catalog No.	Unit
Streptavidin	2.0-2.9	1.0	SVFM-20-5	5 mL
Streptavidin	4.0-4.9	1.0	SVFM-40-5	5 mL
Streptavidin	8.0-8.9	1.0	SVFM-80-4	4 mL
Streptavidin	10.0-13.9	1.0	SVFM-100-4	4 mL

**Figure 115** Size distribution analysis of SPHERO™ Cat. No. SVFM-20-5, Streptavidin Ferromagnetic Particles from the Beckman Coulter Z3 Multisizer™ 3.



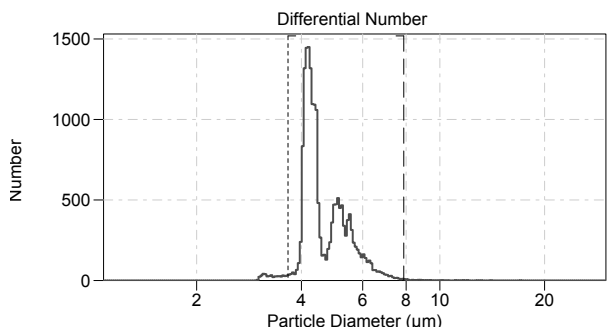
### SPHERO™ Goat anti-Mouse IgG Coated Ferromagnetic Particles

- Provides a means to measure forces applied to a specimen through specific receptors proteins
- Aids in the development of magnetic systems designed to apply forces or force patterns
- Coated fluorescent ferromagnetic particles allows for force measurements using fluorescent microscopy
- Contains two orders of magnitude higher magnetic moments than paramagnetic particles and can be incubated with biological cells during phagocytosis assays\*.

\*Mitrelias, T., J. Palfreyman, et al. (2007). "Biological cell detection using ferromagnetic microbeads." Journal of Magnetism and Magnetic Materials 310(2, Part 3): 2862-2864.

Particle Type and Surface	Size, $\mu\text{m}$	% w/v	Catalog No.	Unit
Goat anti-Mouse IgG (Fc)	2.0-2.9	1.0	FMFc-25-5	5 mL
Goat anti-Mouse IgG (Fc)	4.0-4.5	1.0	FMFc-40-5	5 mL
Goat anti-Mouse IgG (H&L), Cross adsorbed	2.0-2.9	1.0	FMXA-25-5	5 mL
Goat anti-Mouse IgG (H&L), Cross adsorbed	4.0-4.9	1.0	FMXA-40-5	5 mL
Goat anti-Mouse IgG (Fc), Fluorescent, Pink	2.0-2.4	0.1	FMMFc-2058-5	5 mL

**Figure 116** Size distribution analysis of SPHERO™ Cat. No. FMFc-40-5, Gt anti-Ms IgG (H&L) Ferromagnetic Particles, Lot AC01, 4.5  $\mu\text{m}$ , 1.0 w/v, 5mL from the Beckman Coulter Z3 Multisizer™ 3.



Coated Ferromagnetic Particles